

.tmp file problem

Posted by mbleiwei - 2008/11/13 18:01

Greetings,

when we try to input our own .tmp file, we get an error message -- as best as I can determine, it is in the correct file format:

4 lines which are ignored

1 line of data for each DOY: I4,I3, 2F5.1 with Tmax and then Tmin.

And, the SWAT documentation indicates that one may insert temperatures for as many as 150 "gauges" per .tmp file -- is this possible in AGWA and, if so, how does one indicate the location for these "gauges".

I attaching the .tmp file as well as a "print screen" of the DOS window showing the error message. -- I guess I am not going to upload the .tmp file as it is .tmp and 34kB. I will try the error image again as a .jpg

Thanks for the help,

Max

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Re:.tmp file problem

Posted by isburns - 2009/01/09 22:37

Max,

We never got either of the uploads. You should be able to attach both the screenshot and a zipped version of the .tmp file to the same message.

Regarding using multiple gages in one .tmp file, I haven't tried this because the process isn't automated with AGWA. The only way I know how to do this would be to put one gage per subbasin like AGWA does when using Thiessen polygons with precipitation, otherwise I don't know how the location of the gages would be indicated. If you use one gage per subbasin, moving left to right in the file each temp max/min column would correspond to the subbasins with ids 1, 2, 3, etc.

You can find a sample temperature file that is used with tutorial 1, the San Pedro tutorial, in the agwa2datafilesprecip folder.

Shea

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Re:.tmp file problem

Posted by marnen - 2009/01/25 06:29

Hi there,

While running your tutorial 1, I can not find the .tmp file neither on the suggested location, nor anywhere else. Instead, I run the simulation with "Use simulated temperatures", but at the end I had no results for SWAT)empty attribute table.

What seems to be the problem? Where is the .tmp file?

Best regards

Nesha

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Re:.tmp file problem

Posted by isburns - 2009/02/18 19:17

The files are included in 3 different downloads.

In the Datafiles section

Datafiles

Precip - Sample precipitation files for AGWA 1.x and 2.x

In the Packages section

AGWA 2.0 Package

In the Datafiles and Packages files they'll be located in the datafilesprecip directory. In the Precip file, it will be located in the precip directory, which should be placed in the datafiles subdirectory of the HOME folder specified in the AGWA2 Preferences form.

Using simulated temperatures is perfectly acceptable and if you got no results this probably isn't the culprit. If you couldn't find the temperature file where it should be located, it's possible you're missing some other files as well. Do you have the models directory in the HOME folder and does it have the model executables in it? Does your datafiles directory in the HOME folder have all the subdirectories and files in it (directories dat, fao, lc_luts, precip, renderers, ssurgo, statsgo, and wgn and files hgr.dbf and kin_lut.dbf)? If not, download the Datafiles file above and put it in the HOME folder.

Shea

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Re:.tmp file problem

Posted by karrez - 2009/03/10 21:41

I am trying to run SWAT using precip and temp data from 1980, but there is no output generated when i "Run SWAT". all of the files are created in the simulation folder but they are empty. The .pcp file created in the "Create SWAT Precipitation" step APPEARS fine, and the .tmp file i created is recognized and allowed as a choice in the Run SWAT window, and the SWAT command window displays and appears to run fine, but tables in the simulation folder are empty. 1980 was a leap year so there are 366 days in the precip and temp input files. i thought this might have something to do with the failure so i tried

deleting the 366th day of data from the tables and running them with the normal 365 days worth of data but this did not work.

i think the problem must be with the .tmp file because when i run SWAT using simulated temperature data it works fine.

any thoughts?

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Re:.tmp file problem

Posted by karrez - 2009/03/10 21:50

i am comparing 1980 with 1993. the 1993 simulations run fine, and the 1980 data was created the same way and arranged with the same file structure as the 1993 data so i don't think this is the issue either.

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Re:.tmp file problem

Posted by karrez - 2009/03/12 19:56

we just upgraded our computers to office 2007, and the new Excel doesn't offer .dbf as a possible file format so i ended up saving my 1980 precip dataset as a .csv and converting it to a .dbf in Arc. this was not necessary for the 1993 precip dataset (which simulated fine) because we had not yet switched to office 2007. could this have something to do with the reason i can't get my 1980 simulations to run? the precip file created during the Write SWAT Precip step looks fine, but what can i really tell just my lookin at it?

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Re:.tmp file problem

Posted by isburns - 2009/04/13 23:37

Can you zip both simulation folders and upload/attach them to a post so I can take a look. If you got it to run for one year but not the other without anything changing other than the precip/temp data, then we know the source of the problem, but I'll need to look at the files to know what needs fixing.

Shea

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Re:.tmp file problem

Posted by karrez - 2009/04/14 17:00

thanks for your reply, but we solved the problem. it was an issue with the space delimited layout of the

.tmp file. the 1993 tmp file was successfully written with 0s as place holders. (see below for example)

1993 Temperature Data (title)

38 (latitude)

96 (longitude)

1220 (elevation)

1993 1-10.6-14.4 (year day maxtemp mintemp)

1993 2-01.1-14.4

1993 3007.2-01.7

this format did not work for the 80 tmp file for some reason. the below format did work however.

1980 Temperature Data

38

96

1220

1980 1 10.6 -6.7

1980 2 0.6 -2.8

1980 3 -1.1 -5.6

no idea why the same format didn't work for both, but it didn't. regardless, it works now.

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Re:.tmp file problem

Posted by isburns - 2009/04/14 20:08

SWAT uses a fixed file format for most files which is probably what causes the problem. In the TMP file, it expects the max and min to be f5.1 numbers appearing in positions 8-12 for max and 13-17 for min.

So possible causes could have been a missing decimal point or two negative signs or decimal points appearing in the position for max. There are probably other things that would do it as well. Anyway, the leading 0s are obviously not a requirement as you have learned, but for some they may help line things up in the correct positions with the correct format.

Anyway, glad to hear you got the problem worked out.

Shea

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Re:.tmp file problem

Posted by karrez - 2010/02/25 21:17

I am working on a new project, and i was wanting to model three different time periods in the same area, each 5 years in length. the immediate problem is that according to the SWAT documentation, Julian data in the temperature file i am creating can only be 3-integers long, but with five years of daily temperature data i have 1828 days. so are we only able to model 2 years 8 months and 25 days at a time (thats 999 days)? or am i just missing something?

appreciate any input :)

thanks again Shea

kary

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Re:.tmp file problem

Posted by isburns - 2010/03/23 16:38

Hi Kary,

In the temperature file, the 4-digit year is in positions 1-4 and the 3-digit Julian date is in positions 5-7. The Julian date resets back to 1 and the year is incremented by 1 at the beginning of each year, so you can model whatever time periods you choose. Because AGWA doesn't have a sophisticated date picker for the simulation start and end dates, make sure the precip and temperature files begin at day 1 of the year. In the future, more flexibility for simulation dates will be included.

Shea

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